

Supplementary Information

Effect of Co^{2+} substitution in the frame work of carbonate intercalated Cu/Cr LDH on structural, electronic, optical and photocatalytic properties

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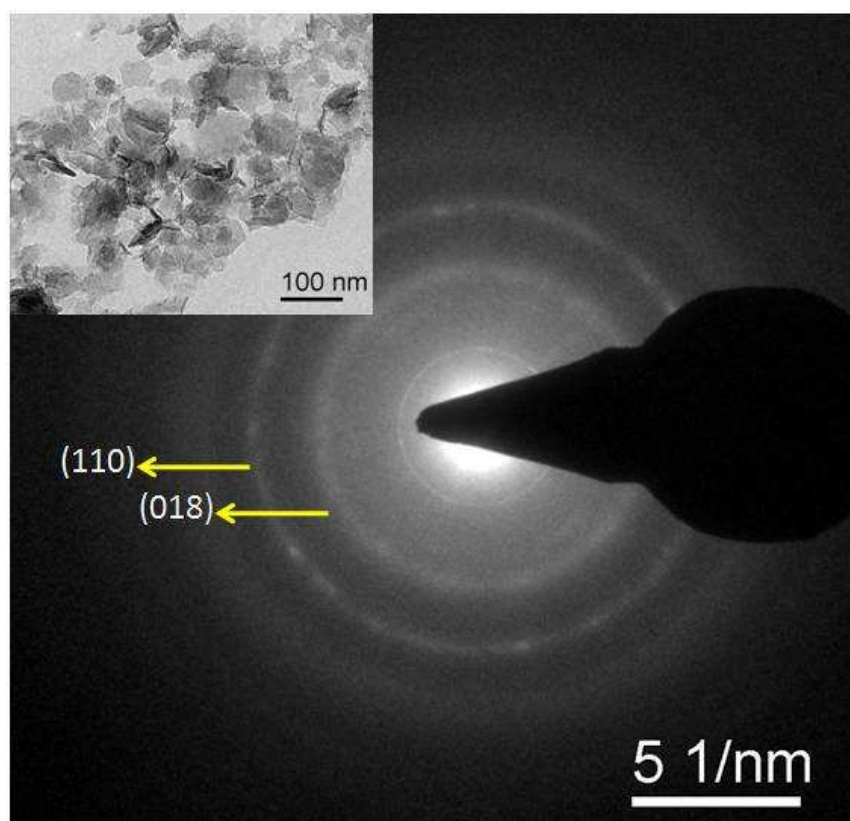


Figure S1 TEM images and SAED of all LDH4 material.

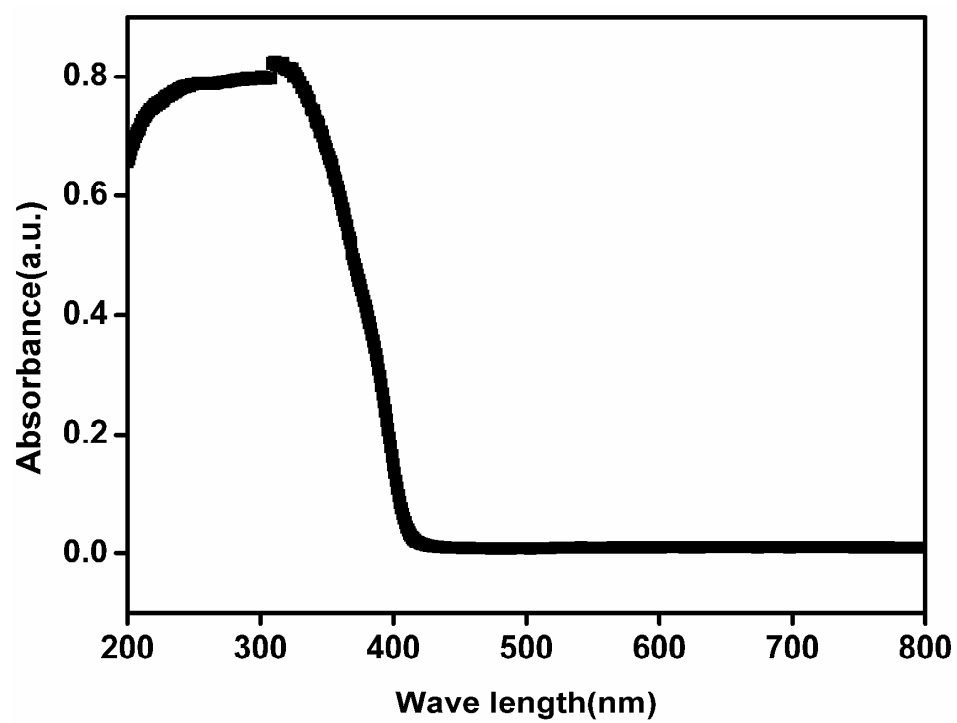


Figure S2 The UV-Vis DRS spectra of P25

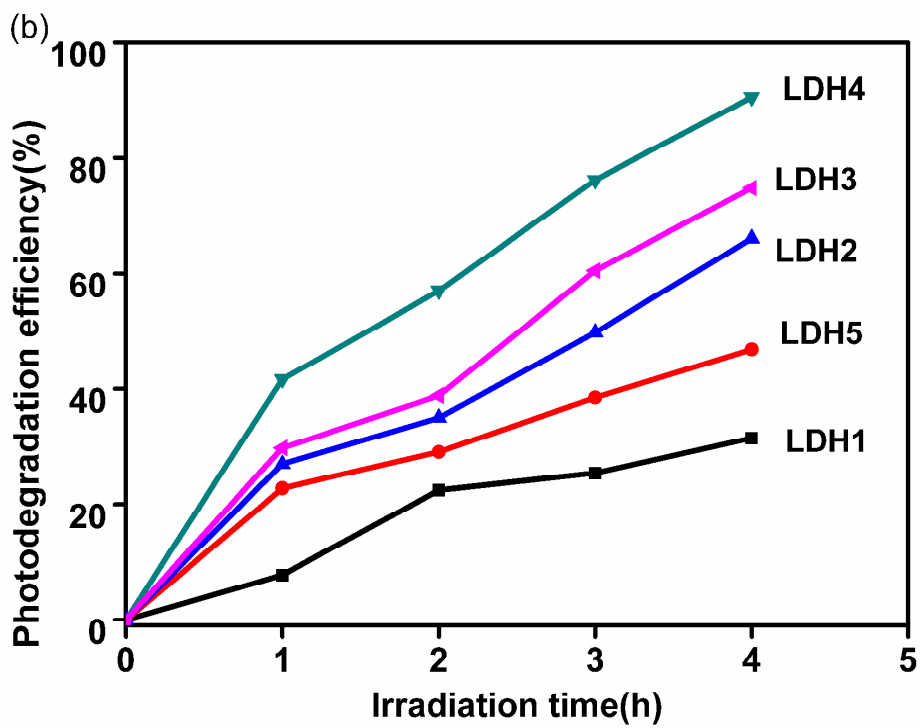
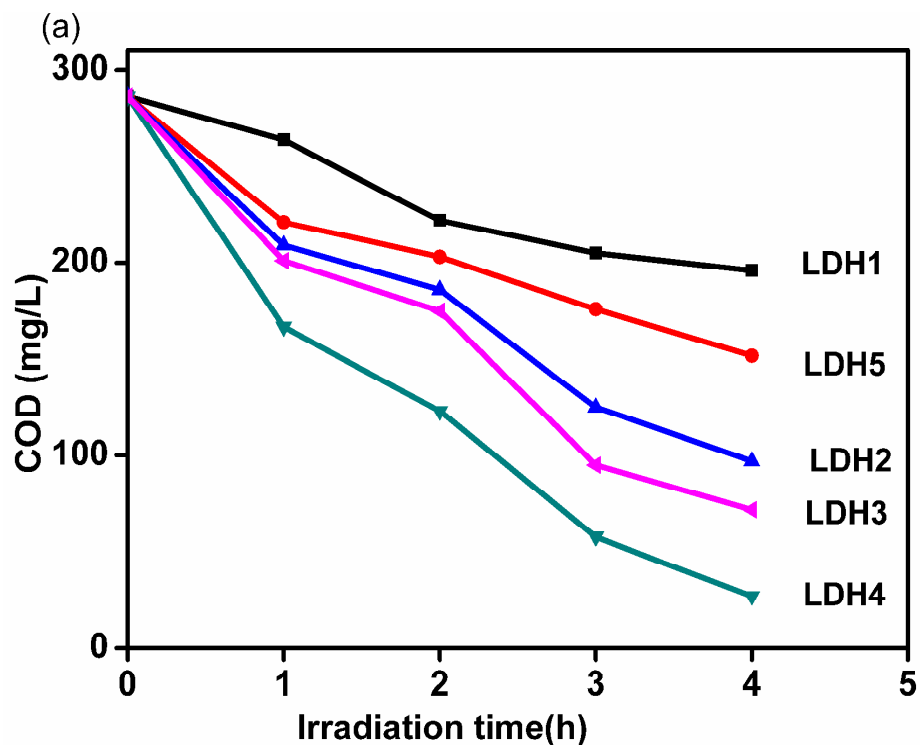


Figure S3. (a) Photocatalytic degradation of MG (100 ppm) with all prepared LDHs by COD (mg/L) and (b)photodegradation efficiency (%).

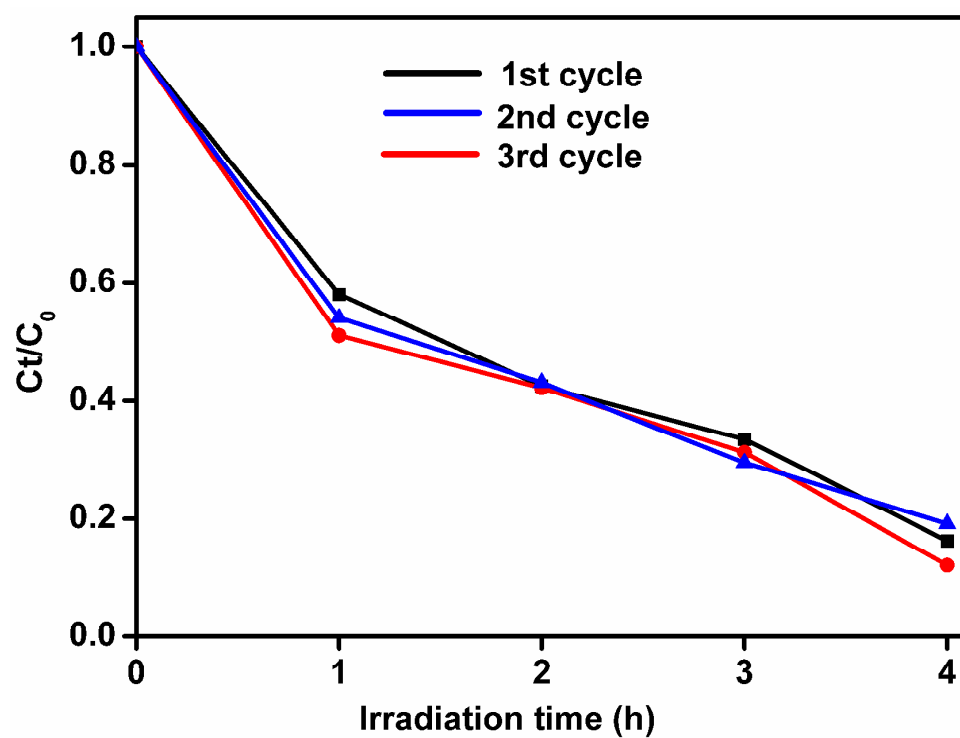


Figure S4. Recycling experiments over LDH4

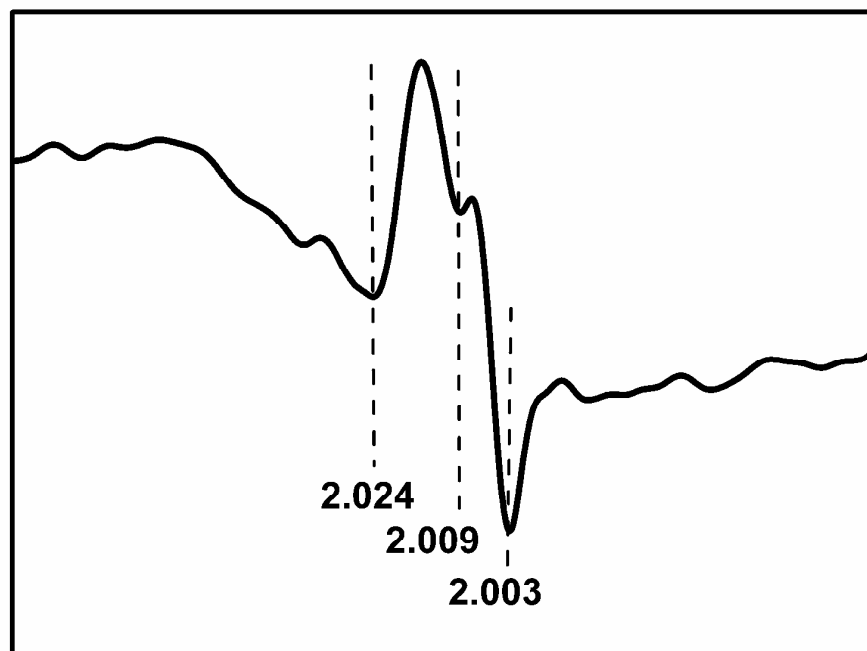


Figure S5 . EPR spectra of LDH4 sample

Table S1 Solar light intensity and % of MG degradation over all experiments.

Solar light intensity	% of degradation
10,4200 Lx	88.5
10,4100Lx	88.0
10,4000Lx	87.2